Map of parcels at 33 kft on 04070817 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070817 2.5 2.0 Days Since Convection 1.0 0.5 0.0 NASA/ARC Last Image Used is 0407081645 1764 Trajectories

Map of parcels at 33 kft on 04070817 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air - influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection 5.01 Cross, square, and trajectory colors indicate elapsed time between convection and 04070817 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC Last Image Used is 0407081645 **PSL** 1764 Trajectories

Map of parcels at 33 kft on 04070817 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070817 6.5 6.0 5.0 NASA/ARC Last Image Used is 0407081645 **PSL** 1764 Trajectories

Map of parcels at 33 kft on 04070817 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070817 10.0 9.0 8.5 8.0 NASA/ARC **PSL** Last Image Used is 0407081645 1764 Trajectories